What is Claimed:

1. A process for the synthesis of compounds of formula I:

$$R_4$$
 R_3
 R_2

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wherein

R is hydrogen;

R₁, R₂ are each, independently, hydrogen, alkyl of 1-6 carbon atoms, alkoxy of 1-6 carbon atoms, halogen, fluorinated alkyl of from 1 to 6 carbon atoms, -CN, -NH-SO₂-alkyl of 1-6 carbon atoms, -SO₂-NH-alkyl of 1-6 carbon atoms, alkyl amide of 1-6 carbon atoms, amino, alkylamino of 1-6 carbon atoms, dialkylamino of 1-6 carbon atoms per alkyl moiety, fluorinated alkoxy of 1-6 carbon atoms, acyl of 2-7 carbon atoms, or aroyl, preferably phenoyl or thiophenoyl;

 R_3 , R_4 are each independently hydrogen, C_1 - C_6 alkyl, cycloalkyl of from 3 to 7 carbon atoms or $-CH_2$ -cycloalkyl of from 3 to 7 carbon atoms;

wherein the dashed line indicates an optional double bond; the process comprising the steps of:

a) acylating a benzodiazepine compound of the formula:

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to give an acylated benzodiazepine of the formula:

wherein R' represents represents alkyl of from 1 to 10 carbon atoms, preferably 1 to 6 carbon atoms, or a benzyl or napthyl group;

b) reacting the acylated benzodiazepine of step a) with a nitrosating agent to provide an acylated nitroso benzodiazepine compound of the formula:

c) reducing the acylated nitroso benzodiazepine compound of step b) to yield an acylated 1-aminobenzodiazepine compound of the formula

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d) allowing the acylated 1-aminobenzodiazepine compound of step c) to react with a cyclopentanone compound of the formula:

to provide a cyclopentylideneamino benzodiazepine compound of the formula:

$$R_1$$
 R_2
 N
 N
 R'
 R_3
 R_4

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e) reacting the cyclopentylideneamino benzodiazepine compound of step d) to provide an acylated compound of the formula:

$$R_3$$
 R_4 R_2 ; and either

f) deacylating the acylated compound of step e) to provide a compound of the formula:

$$R_3$$
 R_4 R_2 R_1

- 5 which may optionally be reduced; or
 - g) reducing the acylated compound of step e) to provide a compound of the formula:

$$R_3$$
 R_4
 R_2
 R_1

10 and

h) deacylating the compound of step g) to provide a compound of the formula:

$$R_3$$
 R_4 R_2 R_1

15 2) A process of Claim 1 for the production of a compound of the formula:

$$R_3$$
 R_4 R_2 R_1

comprising the steps a) through f) of Claim 1, wherein R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1.

5 3) The process of Claim 2 with an additional step of reducing the compound of the formula:

to produce a compound of the formula:

$$R_3$$
 R_4 R_2 R_1

- 10 wherein R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1.
 - 4) A process of Claim 3 further comprising the step of alkylating the compound of the formula:

$$R_3$$
 R_4 R_2 R_1

wherein R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1, to provide an alkylated compound of the formula:

$$R_3$$
 R_4
 R_2
 R_1

wherein R is an alkyl group of from 1 to 6 carbon atoms.

5) A process according to Claim 1 comprising steps a) through e) of Claim 1
 5 to provide an acylated compound of the formula:

followed by reduction of the acylated compound to provide a reduced acylated compound of the formula:

and deacylation of the reduced acylated compound to provide a compound of the formula:

$$R_3$$
 R_4
 R_2
 R_1

wherein R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1.

15 6) A process of Claim 5 further comprising the step of alkylating the compound of the formula:

$$R_3$$
 R_4
 R_2
 R_1

wherein R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1, to provide an alkylated compound of the formula:

$$R_3$$
 R_4
 R_2
 R_1

- 5 wherein R is an alkyl group of from 1 to 6 carbon atoms and R₁, R₂, R₃, and R₄ are as defined in Claim 1.
 - 7) A process of Claim 1 comprising steps a) through f) of Claim 1 to produce a compound of the formula:

$$R_3$$
 R_4 R_2 R_1

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wherein R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1, and further comprising the step of alkylating the compound to produce an alkylated compound of the formula:

$$R_3$$
 R_4 R_2 R_1

wherein R is an alkyl group of from 1 to 6 carbon atoms and R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1.

8) A process of Claim 1 wherein R is hydrogen and R_1 , R_2 , R_3 , and R_4 are as defined in Claim 1.

- 9) A process of Claim-1 wherein R, R_1 and R_3 are hydrogen and R_2 and R_4 are as defined in Claim 1.
 - 10) A process of Claim 1 wherein R, R_1 , R_2 , R_3 , and R_4 are each hydrogen.

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